

CLAIMS

1. A light-guiding plate comprising an incident surface and an emission surface substantially perpendicular to said incident surface, said incident  
5 surface having a plurality of projections or depressions extending substantially parallel to said emission surface.

2. A light-guiding plate as set forth in claim 1 wherein a pitch of said plurality of projections or  
10 depressions changes at an end of the incident surface on the emission surface side and at other positions.

3. A light-guiding plate comprising an incident surface, an emission surface substantially perpendicular to said incident surface, and a reflection surface  
15 substantially perpendicular to said incident surface, said reflection surface having projections.

4. A light-guiding plate as set forth in claim 1 or 3, wherein said light-guiding plate has projections at the emission surface.

20 5. A light source device comprising a side light source, a light-guiding plate, and a prism sheet,  
wherein said side light source is arranged at one side surface among two side surfaces opposite to each other of said light-guiding plate and said light-  
25 guiding plate, said prism sheet are superposed on each other, and

wherein said prism sheet includes a plurality of prism parts on said light-guiding plate side and is configured so that the ratio of area of inclined  
30 surfaces per unit area decreases in a region of a range up to a predetermined distance from said side light source.

6. A light source device as set forth in claim 5, wherein said prism sheet includes a plurality of inclined  
35 surfaces and at least one flat part at said light-guiding plate side, and is configured so that the ratio of area of said flat part to area of inclined surfaces per unit

area becomes larger in a region of a range up to a predetermined distance from said side light source.

5       7.    A light source device as set forth in claim 6, wherein the prism parts of said prism sheet are configured so that the ratio of area of the inclined surfaces per unit area gradually decreases the closer to said side light source at a region of a range up to a predetermined distance from said side light source.

10       8.    A light source device as set forth in claim 7, wherein each of said plurality of prism parts includes two inclined surfaces and in that a pitch of said prisms is larger at a region of a range up to a predetermined distance from said side light source.

15       9.    A light source device as set forth in claim 8, wherein a pitch of said prisms gradually becomes larger the closer to said side light source in a region of a range up to a predetermined distance from said side light source.

20       10.   A light source device as set forth in claim 9, wherein the region of a range up to a predetermined distance from said side light source of said prism sheet is a region of a range up to a distance of at least three times the maximum thickness of said side light source side of said light-guiding plate.

25       11.   A light source device as set forth in claim 10, wherein each of the prism parts of a region of a range up to a predetermined distance from said side light source of said plurality of prism parts is of a substantially quadrangular prism shape including two inclined surfaces and one flat surface, and each of the prism parts of a  
30       region outside the region of a range up to a predetermined distance from said side light source of said plurality of prism parts is of a substantially triangular prism shape including two inclined surfaces.

35       12.   A light source device as set forth in claim 11, wherein each of said plurality of prism parts is of a substantially triangular prism shape including two

inclined surfaces, and each flat surface is arranged between two prism parts.

5       13. A light source device as set forth in claim 5, wherein the surface of said prism sheet at said light-guiding plate side and/or the surface at the opposite side from said light-guiding plate at a region of a range up to a predetermined distance from said side light source of said prism sheet is treated for diffusion.

10       14. A light source device as set forth in claim 13, wherein the degree of diffusion given to said prism sheet becomes larger at a region of a range up to a predetermined distance from said side light source compared with a center region.

15       15. A light source device as set forth in claim 13 or 14 characterized in that the degree of diffusion given to said prism sheet substantially becomes gradually larger the closer to said side light source at a region of a range up to a predetermined distance from said side light source.

20       16. A light source device as set forth in claim 5, wherein the entire surface of said prism sheet on the side opposite to said light-guiding plate is treated for diffusion.

25       17. A light source device as set forth in claim 16, wherein the degree of diffusion given to the entire surface of said prism sheet at the side opposite to said light-guiding plate is substantially constant at a region outside of a region of a range up to a predetermined distance from said side light source.

30       18. A light source device as set forth in claim 13 or 16, wherein the degree of diffusion given to said prism sheet is different between a direction parallel to and a direction perpendicular to at least a longitudinal direction of said light source.

35       19. A light source device as set forth in claim 13 or 16, wherein the degree of diffusion given to said prism sheet becomes stronger in a direction perpendicular

to at least a longitudinal direction of said light source compared with a direction parallel to said longitudinal direction.

20. A light source device as set forth in claim 13  
5 or 16, wherein a diffusion sheet is further arranged superposed over said prism sheet at a side of said prism sheet opposite to said light-guiding plate.

21. A light source device as set forth in claim 5,  
10 wherein a diffusion part is provided near an end of said prism sheet side of a side surface of said light-guiding plate on said side light source side.

22. A prism sheet comprising a plurality of prisms at one of the major surfaces of a sheet, and being configured so that a degree of area of inclined surfaces  
15 per unit area decreases the closer to said one side at a region of a range up to a predetermined distance from one side of said major surface compared with a center region.

23. A liquid crystal display comprising a side  
20 light source, a light-guiding plate, a prism sheet, and a liquid crystal panel,

wherein said side light source is arranged at one of the side surfaces among two side surfaces opposite to each other at said light-guiding plate, and

said prism sheet includes a plurality of  
25 prism parts at said light-guiding plate side and is configured so that a ratio of area of inclined surfaces per unit area decreases in a region of a range up to a predetermined distance from said side light source.

24. An electronic device comprising a side light  
30 source, a light-guiding plate, a prism sheet, and a liquid crystal panel,

wherein said side light source is arranged at one of the side surfaces among two side surfaces facing each other at said light-guiding plate, and

35 said prism sheet includes a plurality of prism parts at said light-guiding plate side and is configured so that a ratio of area of inclined surfaces

per unit area decreases in a region of a range up to a predetermined distance from said side light source.